IAP6 Rec'd PCT/PTO 28 SEP 2006

PTO-1390 (Rev. 07-2005)

Approved for use through 03/31/2007. OMB 0651-0021

U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL LETTER TO		ATTORNEY'S DOCKET NUMBER					
DESIGNATED/ELECTED	4633-0184PUS1						
CONCERNING A SUBMISSION	U.S. ARPLICATION NO. (Fishows, See 37 CFR 1.5)						
INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED -					
PCT/JP2005/005588 TITLE OF INVENTION	25 March 2005	31 March 2004					
HEAT EXCHANGER							
APPLICANT(S) FOR DO/EO/US Shuji IKEGAMI and Hirohiko MATSUSI	-IITΔ						
)/US) the following items and other information:					
1. X This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.							
2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.							
	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.						
4. The US has been elected (Article 31).							
5. x A copy of the International Application as filed (35 U.S.C. 371 (c)(2))							
a. is attached hereto (required only if not communicated by the International Bureau).							
b. x has been communicated by the International Bureau (WO 2005/098340 A1)							
c. is not required, as the application was filed in the United States Receiving Office (RO/US).							
6. x An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).							
	a. x is attached hereto.						
b. has been previously submitted	under 35 U.S.C. 154(d)(4).						
7. X Amendments to the claims of the II	7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))						
a. are attached hereto (required only if not communicated by the International Bureau).							
b. have been communicated by the International Bureau.							
c. have not been made; however, the time limit for making such amendments has NOT expired.							
	d. x have not been made and will not be made.						
I ==	the amendments to the claims under F	PCT Article 19 (35 U.S.C. 371(c)(3)).					
9. X An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)),							
An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).							
Items 11 to 20 below concern document	ment(s) or information included:	•					
11. x An Information Disclosure Staten	nent under 37 CFR 1.97 and 1.98.	·					
12. X An assignment document for recor	ding. A separate cover sheet in compl	iance with 37 CFR 3.28 and 3.31 is included.					
13. A preliminary amendment.							
14. An Application Data Sheet under	37 CFR 1.76.						
15. A substitute specification.							
16. A power of attorney and/or change	e of address letter.						
17. A computer-readable form of the	sequence listing in accordance with P	CT Rule 13ter.2 and 37 CFR 1.821 – 1.825.					
18. A second copy of the published In	ternational Application under 35 U.S.	C. 154(d)(4).					
19. A second copy of the English lang	uage translation of the international a	pplication under 35 U.S.C. 154(d)(4).					

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U.S. APPLICATION		602	INTERNATIONAL APPLICATION NO. PCT/JP2005/005588		ATTORNEY'S DOCKET NUMBER 4633-0184PUS1		
20. x Other items or information: Return Receipt Postcard PCT/IB/304 & PCT/IB/308 PCT/ISA/210 Seven (7) Sheets of Formal Drawings							
The foll	owing fees hav	e been submit	red		CALCULATION	S PTO USEONLY	
The following fees have been submitted 21. x Basic national fee (37 CFR 1.492(a))				\$ 300.0			
22. x Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0 All other situations					\$ 200.0	00	
23. x Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)					\$ 400.0	00	
	TOTAL OF 21, 2	2 and 23 =			\$ 900.0	00	
Additional fee for specification and drawings filed In paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.							
Total Sheets	Extra Sheets		h additional 50 or fraction I up to a whole number)	RATE			
27 -100=	/50 =	<u> </u>	x \$250.00		\$		
	_	•	e, examination fee, or the e_(37 CFR 1.492(h)).	oath or declaration	\$		
CLAIMS	NU	MBER FILED	NUMBER EXTRA	RATE			
Total clair	ns	12 - 20 =	0	x 50.00	0.00		
Independent	claims	1 - 3 = 0 x 200.00 0.00			00		
MULTIPLE DEP	ENDENT CLAIM(S) (if applicable)		+ 360.00	360.00		
TOTAL OF ABOVE CALCULATIONS = \$ 1,260.					00		
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.							
				SUBTOTAL =	\$ 1,260.0	00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$			
TOTAL NATIONAL FEE			\$ 1,260.00				
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +			\$ 40.00				
\$							
TOTAL FEES ENCLOSED =			\$ 1,300.00				
		L			Amount to be refunded:	\$	
					Amount to be charged	\$	
					J		

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a. X A check in the amount of \$1,300.00 to cover the	above fees is enclosed.						
b. Please charge my Deposit Account No. 02-2448 in the A duplicate copy of this sheet is enclosed.	amount of \$ to cover the above fees.						
C. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 02-2448 . A duplicate copy of this sheet is enclosed.							
Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card Information should not be included on this form. Provide credit card information and authorization on PTO-2038							
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not if filed an granted to restore the international Application to pending a	been met, a petition to revive (37 CFR) 1.137(a) or (b)) must be status.						
SEND ALL CORRESPONDENCE TO:	SIGNATURE						
Date: September 28, 2006	D. Richard Anderson NAME						
CUSTOMER NUMBER: 02292	40.400						
·	40,439 REGISTRATION NUMBER						
	-						